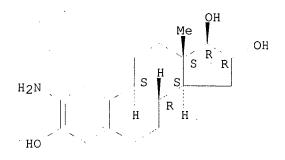
Jan Delaval please

Access DB# 10640

## SEARCH REQUEST FORM

## Scientific and Technical Information Center

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Art Unit: 16/6 Phone N	umber 30 5 - 3.5/0	Serial Number: 07/7	79,331
Mail Box and Bldg/Room Location:	24/9 Resul	Its Format Preferred (circle): PA	PER DISK E-MAIL
If more than one search is submitted, please prioritize searches in order of need.			
Please provide a detailed statement of the s	earch topic, and describe a	s specifically as possible the subject m	atter to be searched.
Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if			
known. Please attach a copy of the cover sh			
Aut.	2-9209 en	nie agent	See 1939, 200
Title of Invention:Auli Inventors (please provide full names):			
Inventors (please provide full names):	HGOSTON	, eral	
Full name (Grego	ry E. Agosti	021)	
Earliest Priority Filing Date: 2/8	1/2007		£ **
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appropriate serial number.			
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Searcher Location:	Structure (#)	Questel/Orbit	
Date Searcher Picked Up:	Bibliographic	Dr.Link	**************************************
Date Completed:	Litigation	Lexis/Nexis	
Searcher Prep & Review Time:	Fulltext	Sequence Systems	
Clerical Prep Time:	Patent Family	WWW/Internet	
Online Time: 430	Other	Other (specify)	
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 100:68583

=> => fil uspatall
FILE 'USPATFULL' ENTERED AT 11:26:30 ON 21 DEC 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 11:26:30 ON 21 DEC 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> d l19 bib abs hitstr

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ANSWER 1 OF 1 USPATFULL on STN
       1999:143299 USPATFULL
AN
TI
       Selective denial of encrypted high precision data by indirect keying
IN
       Clark, James Monroe, Verona, NJ, United States
PA
       ITT Corporation, New York, NY, United States (U.S. corporation)
PΙ
                                19991109
       US 5982897
ΑI
       US 1998-95623
                                19980610 (9)
RLI
       Continuation of Ser. No. US 1995-429519, filed on 26 Apr 1995, now
       abandoned
DT
       Utility
FS
       Granted
EXNAM
       Primary Examiner: Hayes, Gail O.; Assistant Examiner: Sayadian, Hrayr A.
LREP
       Plevy, Arthur L.
CLMN
       Number of Claims: 24
ECL
       Exemplary Claim: 21
DRWN
       4 Drawing Figure(s); 3 Drawing Page(s)
LN.CNT 655
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB.
       High precision transmitted navigational data as encrypted data
```

High precision transmitted navigational data as encrypted data transmitted by global positioning (GPS) satellites is made unavailable in regions designated as hostile and during desired intervals, while allowing the data to be available outside the hostile region. All satellites in the GPS constellation transmit the high precision navigational data in encrypted form. However, only the satellites that are not visible to the hostile region transmit the periodic key necessary to decrypt the data. The periodic key changes after a predetermined time interval. During a given time interval the same key value is used by all satellites for encryption of the high precision navigational data. A receiver can obtain the current periodic key from any visible satellite which is transmitting the periodic key. This key is then used to decrypt the high precision navigational data from that satellite and all other visible satellites. As a result, users in the

hostile region are denied access to the high precision navigational data because they are unable to obtain the periodic key necessary to decrypt the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

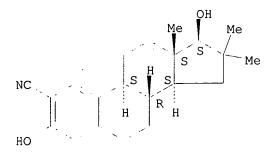
IT 258278-72-7P, EM 1926

(preparation of steroids as inhibitors of type 3  $3\alpha$ -hydroxysteroid dehydrogenase)

RN 258278-72-7 USPATFULL

CN Estra-1,3,5(10)-triene-2-carbonitrile, 3,17-dihydroxy-16,16-dimethyl-,  $(17\beta)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 11:26:39 ON 21 DEC 2003
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FILE COVERS 1907 - 21 Dec 2003 VOL 139 ISS 26 FILE LAST UPDATED: 19 Dec 2003 (20031219/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

## => d all hitstr tot 131

L31 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:116882 HCAPLUS

DN 132:152024

ED Entered STN: 18 Feb 2000

TI Preparation of steroids as inhibitors of type 3  $3\alpha$ -hydroxysteroid dehydrogenase

IN Labrie, Fernand; Merand, Yves; Gauthier, Sylvain; Provencher, Louis; Luu-The, Van

PA Endorecherche, Inc., Can.

greater aromatic hydroxylation but the catecholestrogen was O-methylated to a greater relative extent. The  $16\beta\text{--}17\beta$  derivative underwent alicyclic as well as substantial aromatic hydroxylation and yielded numerous isomeric glucuronides of O-methylated catechols. Thus, the fluorine exerted complex effects (inhibitory and enhancing) on both localized (D-ring) and distal (A-ring) biotransformations of the estradiol mol.; the direction and magnitude of the effects being dependent upon the stereochem. at C-16 and C-17. These findings provide structural guidelines for restricting the metabolism of tumor-imaging fluoroestrogens and thereby enhancing their delivery to the target tissue.

- fluoroestradiol prepn metab estrogen receptor imaging ST
- ΙT Drug metabolism

Imaging agents

Structure-activity relationship

Substituent effects

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

ΙT Estrogen receptors

> RL: BSU (Biological study, unclassified); BIOL (Biological study) (metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

84693-92-5P 92817-10-2P 92817-11-3P IT 202397-89-5P 202397-90-8P 202397-91-9P

RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

202397-92-0 202397-94-2 202397-95-3 IT 202397-93-1

202397-98-6 202397-99-7 202397-96-4 202397-97-5

202398-02-5 202398-03-6 202398-00-3 202398-01-4 202398-04-7

202398-05-8 202398-06-9 202398-07-0 202398-08-1

202398-09-2

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

IT 53-16-7, Estrone, reactions 3459-26-5

RL: RCT (Reactant); RACT (Reactant or reagent) (metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

IT 130409-74-4P 130409-84-6P 202397-83-9P 202397-84-0P 202397-86-2P 202397-87-3P 202397-88-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(metabolism of 16-fluoroestradiols in vivo: chemical strategies for restricting oxidative biotransformations of estrogen-receptor imaging agent)

THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 50 RE

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- (4) Bush, I; Biochem J 1964, V93, P236 HCAPLUS

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  (6) Cummins, C; Steroids 1993, V58, P245 HCAPLUS
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restricting oxidative biotransformations of estrogen-receptor imaging

202397-95-3 HCAPLUS

agent)

RN

β-D-Glucopyranosiduronic acid, (16α,17β)-16-fluoro-3,17-CN dihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 202397-99-7 HCAPLUS

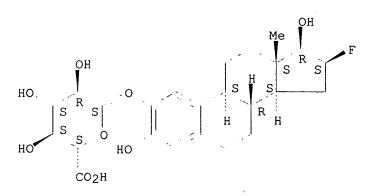
CN  $\beta$ -D-Glucopyranosiduronic acid,  $(16\alpha,17\alpha)$ -16-fluoro-3,17-dihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 202398-05-8 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid,  $(16\beta,17\beta)$ -16-fluoro-3,17-dihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L31 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:43278 HCAPLUS

DN 114:43278

ED Entered STN: 09 Feb 1991

TI Synthesis of 2-hydroxyestriol monoglucuronides and monosulfates

AU Ohkubo, Tadashi; Wakasawa, Tatsuyoshi; Nambara, Toshio

CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SO Steroids (1990), 55(3), 128-32 CODEN: STEDAM; ISSN: 0039-128X

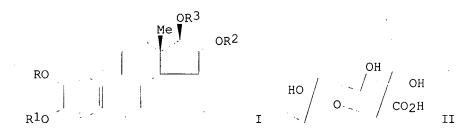
DT Journal

LA English

CC 32-3 (Steroids)

OS CASREACT 114:43278

GI



AB The ring A monoglucuronides I (R = R2 = R3 = H, R1 = II; R = II, R1 = R2 = R3 = H) and monosulfates I (R = S03H, R1 = R2 = R3 = H; R1 = S03H, R = R2 = R3 = H) of 2-hydroxyestriol were synthesized from 2-hydroxyestriol 16,17-diacetate I (R = R1 = H, R2 = R3 = Ac) by means of the Koenigs-Knorr reaction with Me  $\alpha$ -acetobromoglucuronate and sulfation with sulfur trioxide-pyridine complex, resp., followed by deacetylation. The configuration of these compds. were definitely established by conversion to 2-hydroxyestriol monomethyl esters by methylation, then enzymic hydrolysis. The ring D monoglucuronides I (R = R1 = R2 = H, R3 = II; R = R1 = R3 = H, R2 = II) and monosulfates I (R = R1 = R2 = H, R3 = S03H; R = R1 = R3 = H, R2 = S03H) of 2-hydroxyestriol were also prepared from 2-hydroxyestriol, 2,3-dibenzyl ether I (R = R1 = CH2Ph, R2 = R3 = H) by glucuronidation and sulfation in a similar fashion followed by debenzylation. The positions of conjugation were established on the basis of their 1H-NMR spectral data.

ST hydroxyestriol monoglucuronide monosulfate

IT Steroids, compounds

RL: SPN (Synthetic preparation); PREP (Preparation)

(hydroxy, monoglucuronides and monosulfates of hydroxyestriol, preparation of)

IT 21085-72-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(condensation of, with hydroxyestriol diacetate)

IT 111162-88-0

RL: RCT (Reactant); RACT (Reactant or reagent)
 (conversion to monoglucuronide or monosulfate)

IT 131429-39-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and conversion to monoglucuronide and monosulfates)

IT 116382-65-1P 131429-36-2P 131429-37-3P 131429-38-4P 131429-40-8P 131429-41-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deacetylation of)

IT 131429-42-0P 131429-43-1P 131429-44-2P 131429-45-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and debenzylation of)

IT 55349-20-7P 55349-21-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and enzymic hydrolysis of)

IT 1236-72-2P 28818-82-8P 55349-18-3P 82356-49-8P 125529-47-7P

125529-48-8P 125529-49-9P 125549-03-3P 131435-34-2P RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

IT **55349-22-9** 125529-46-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(sequential methylation and alkaline hydrolysis of)

IT 55349-22-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(sequential methylation and alkaline hydrolysis of)

RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid,  $(16\alpha, 17\beta)$ -3,16,17-

trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

L31 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:722 HCAPLUS

DN 114:722

ED Entered STN: 12 Jan 1991

TI Multiplicity of in vitro glucuronidation of 2-hydroxyestriol

AU Ohkubo, Tadashi; Takahashi, Ayako; Nambara, Toshio

CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SO Journal of Steroid Biochemistry (1990), 36(5), 501-3 CODEN: JSTBBK; ISSN: 0022-4731

DT Journal

LA English

CC 2-4 (Mammalian Hormones)

In vitro glucuronidation of 2-hydroxyestriol has been investigated by HPLC AΒ with dual-electrode coulometric detection. When incubated with a rat or dog liver microsomal preparation in the presence of UDP glucuronic acid, 2-hydroxyestriol was transformed into the 2-glucuronide together with a small amount of 16- and/or 17-glucuronides. In contrast, incubation of 2-hydroxyestriol with guinea pig liver microsomal preparation yielded the 3-glucuronide and a trace amount of the 2-glucuronide, but no ring D glucuronides. Upon pretreatment with 3-methylcholanthrene, male rat liver exhibited a marked increase in both 2- and 3-glucuronidation activities, whereas female rat liver showed an elevation only in 2-glucuronidation. In both male and female rats, pretreatment with phenobarbital caused a relatively small increase in the glucuronidation activity of the liver. In the male guinea pig, glucuronidation was not affected by pretreatment with either of the two compds. This demonstrated the multiplicity of hepatic 2-hydroxyestriol UDP-glucuronyltransferase in the rat, guinea pig, and dog.

ST hydroxyestriol glucuronidation; UDP glucuronyltransferase catechol estrogen

IT Sex

(hydroxyestriol glucuronidation by liver in relation to)

IT Liver, metabolism

(hydroxyestriol glucuronidation by, sex and species variations in)

IT 55349-22-9 125529-46-6, 2-Hydroxyestriol 3-monoglucuronide

125529-47-7, 2-Hydroxyestriol 16-monoglucuronide 125529-48-8, 2-Hydroxyestriol 17-monoglucuronide RL: FORM (Formation, nonpreparative)

(formation of, from 2-hydroxyestriol by liver, sex and species variations in)

IT 1232-80-0, 2-Hydroxyestriol

RL: RCT (Reactant); RACT (Reactant or reagent)

(glucuronidation of, by liver, sex and species variations in)

IT 130731-17-8

RL: BIOL (Biological study)

(of liver, sex and species variations in)

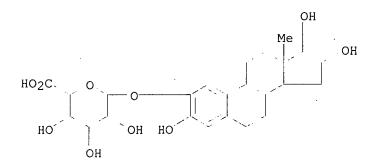
IT 55349-22-9

RL: FORM (Formation, nonpreparative)

(formation of, from 2-hydroxyestriol by liver, sex and species variations in)

RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid,  $(16\alpha, 17\beta)$ -3,16,17-trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)



L31 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1990:112186 HCAPLUS

DN 112:112186

ED Entered STN: 31 Mar 1990

TI Studies on steroids. CCXXXXVI. Separation of isomeric 2-hydroxyestriol monoglucuronides and monosulfates by high-performance liquid chromatography with dual-electrode coulometric detection

AU Ohkubo, Tadashi; Wakasawa, Tatsuyoshi; Shimada, Kazutake; Nambara, Toshio

CS Pharm. Inst., Tohoku Univ., Sendai, 980, Japan

SO Journal of Liquid Chromatography (1989), 12(11), 2093-102 CODEN: JLCHD8; ISSN: 0148-3919

DT Journal

LA English

CC 2-1 (Mammalian Hormones)

AB Separation and selective detection of 2-hydroxyestriol monoglucuronides and monosulfates by HPLC with electrochem. detection on a reversed-phase column were carried out. The effects of composition and pH of mobile phase on the capacity factor were investigated with a Develosil ODS-5 column. Four isomeric monoglucuronides of 2-hydroxyestriol appeared to be separable on this column when 0.5% NaOAc/MeCN was used as a mobile phase. However, 2-hydroxyestriol 2-glucuronide and 16-glucuronide were not satisfactorily resolved. In order to differentiate these 2, the use of a dual-electrode coulometric detector was attempted. 2-Hydroxyestriol ring D glucuronides were selectively detected at the 1st electrode (+0.3 V), while the isomeric ring A glucuronides were detected at the 2nd electrode (+0.9 V). The separation of 4 isomeric monosulfates was similarly attained on a μ-Bondasphere-NH2 column with a 0.1% KH2PO4-THF-MeCN mobile phase.

ST hydroxyestriol glucuronide sulfate chromatog; HPLC hydroxyestriol

' hydroxyestriol glucuronide sulfate chromatog; HPLC hydroxyestriol glucuronide sulfate isomer

Chromatography, column and liquid TT (high-performance, dual electrode coulometry combined with, of hydroxyestriol monoglucuronide and monosulfate isomers) 55349-18-3, 2-Hydroxyestriol 2-monosulfate **55349-22-9** IT 82356-49-8, 2-Hydroxyestriol 3-monosulfate 125529-46-6, 2-Hydroxyestriol 125529-47-7, 2-Hydroxyestriol 16-monoglucuronide 3-monoglucuronide 125529-48-8, 2-Hydroxyestriol 17-monoglucuronide 125529-49-9, 2-Hydroxyestriol 17-sulfate 125549-03-3, 2-Hydroxyestriol 16-sulfate RL: BIOL (Biological study) (chromatog. separation of, from isomers by HPLC and dual electrode coulometry) 1232-80-0D, 2-Hydroxyestriol, monoglucuronides and monosulfates TΤ

RL: BIOL (Biological study)

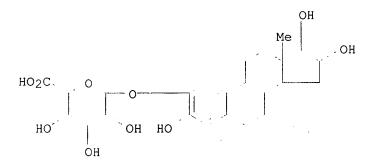
(isomers, chromatog. separation of, with HPLC and dual electrode coulometry)

IT 55349-22-9

> RL: BIOL (Biological study) (chromatog. separation of, from isomers by HPLC and dual electrode coulometry)

RN 55349-22-9 HCAPLUS

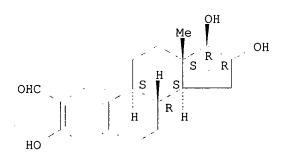
CN  $\beta$ -D-Glucopyranosiduronic acid,  $(16\alpha, 17\beta)$ -3,16,17trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)



- L31 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
- 1989:633337 HCAPLUS ΑN
- 111:233337 DN
- ED Entered STN: 23 Dec 1989
- Formylation of estrogens ΤI
- Pert, Derek J.; Ridley, Damon D. ΑU
- Dep. Org. Chem., Univ. Sydney, Sydney, 2006, Australia CS
- SO Australian Journal of Chemistry (1989), 42(3), 405-19 CODEN: AJCHAS; ISSN: 0004-9425
- DTJournal
- LΑ English
- CC 32-3 (Steroids)
- OS CASREACT 111:233337
- AΒ Reimer-Tiemann formylations of estradiol and estrone were investigated and, while substitution was effected under certain conditions to give mixts. of 2- and 4-formyl estrogens, yields were very low and the method was unsuitable for preparative purposes. Regioselective methods were developed and 2-formylestradiol was conveniently prepared from estradiol by formylation of the lithio derivative of the bis(methoxymethyl) ether and removal of the protecting groups with HCl. 4-Formylestradiol was prepared by lithiation of the methoxyethyl ether of 4-bromoestradiol, formylation with HCONMePh, and removal of the protecting group. A number of related derivs., including 2-formylestriol, were prepared
- ST formylation estrogen; estradiol formylation; estrone formylation
- IT Estrogens
  - RL: RCT (Reactant); RACT (Reactant or reagent)

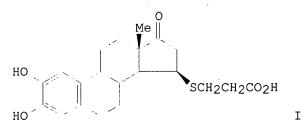
```
(formylation of)
IT
     Formylation
        (of estrogens)
IΤ
     53-16-7, Estrone, reactions
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (Reimer-Tiemann formylation of)
     113680-59-4
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (attempted metalation-formylation of)
     50-27-1
               113680-55-0
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (formylation of)
IT
     1630-83-7
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (methoxyalkylation of)
IT
     123715-92-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and deacetylation of)
                                   123715-90-2P
ΙT
     123715-82-2P
                    123715-83-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and formylation of)
ΙT
     123715-80-0P
                    123715-91-3P
                                   123746-55-4P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and hydrolysis of)
ΙT
     99503-86-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reduction of, with Raney nickel)
ΙT
     6599-97-9P
                  13879-55-5P
                               13879-56-6P
                                              123715-79-7P
                                                              123715-81-1P
     123715-84-4P
                    123715-85-5P
                                   123715-86-6P 123715-87-7P
     123715-88-8P
                    123715-89-9P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
IT
     123715-87-7P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
RN
     123715-87-7 HCAPLUS
CN
     Estra-1,3,5(10)-triene-2-carboxaldehyde, 3,16,17-trihydroxy-,
     (16\alpha, 17\beta) - (9CI) (CA INDEX NAME)
```

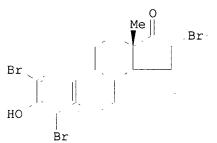
Absolute stereochemistry.



```
L31 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 1989:154664 HCAPLUS
DN 110:154664
ED Entered STN: 30 Apr 1989
TI Studies on steroids. Part CCXXXIX. Preparation and antigenic properties
```

of 2-hydroxyestrone-[C-15]-bovine serum albumin conjugate Okubo, Tadashi; Tsuchiko, Fumiko; Wakasawa, Tatsuyoshi; Nambara, Toshio ΑU Pharm. Inst., Tohoku Univ., Sendai, 980, Japan CS Chemical & Pharmaceutical Bulletin (1988), 36(9), 3519-24 SO CODEN: CPBTAL; ISSN: 0009-2363 DT Journal LA English CC 32-3 (Steroids) Section cross-reference(s): 6, 15 OS CASREACT 110:154664 GΙ





AB A new hapten-carrier conjugate was prepared from  $15\beta$ -(2-carboxyethylthio)-2-hydroxyestrone (I) by coupling to bovine serum albumin employing the mixed anhydride technique. The specificity of anti-2-hydroxyestrone antiserum elicited in rabbits by immunization with this antigen was assessed by cross-reaction studies with related steroids in the RIA procedure and the results are discussed from the structural point of view. I was prepared from tribromoestrone II in several steps. ST hydroxyestrone serum albumin conjugate prepn antigen; estrone hydroxy

serum albumin conjugate IT Haptens

IT Antigens

RL: RCT (Reactant); RACT (Reactant or reagent)
(hydroxyestrone bovine serum albumin conjugate as)

IT Molecular structure-biological activity relationship

(antigenic, of hydroxyestrone bovine serum albumin conjugate)

IT Albumins, compounds

RL: SPN (Synthetic preparation); PREP (Preparation) (conjugates, preparation and antigenic activity of)

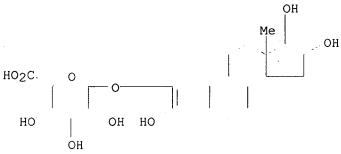
II

IT 107-96-0

RL: RCT (Reactant); RACT (Reactant or reagent) (addition reaction of, with estrenone derivative)

IT 50-27-1, Estriol 50-28-2, Estradiol, preparation 53-16-7, Estrone, preparation 362-05-0, 2-Hydroxyestradiol 362-06-1, 2-Hydroxyestrone 362-08-3, 2-Methoxyestrone 1035-77-4, Estradiol 3-methyl ether 1232-80-0 1474-53-9, Estriol 3-methyl ether 1624-62-0, Estrone methyl ether 3131-23-5, 4-Hydroxyestrone 5976-62-5, 4-Hydroxyestrone 3-methyl

```
5976-63-6, 2-Hydroxyestrone 3-methyl ether
                                                           16105-81-0,
     2-Hydroxyestradiol 3-sulfate 26549-41-7, 2-Hydroxyestrone 2-glucuronide
     52745-31-0 55349-22-9
                            58562-33-7, 4-Methoxyestrone
                  90746-93-3, 4-Hydroxyestrone 3-glucuronide
    89289-97-4
     4-Hydroxyestradiol 4-glucuronide 90762-62-2, 4-Hydroxyestrone
     4-glucuronide
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (cross-reactivity of, with anti-hydroxyestrone antiserum)
    107-21-1P, 1,2-Ethanediol, preparation
TΤ
    RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
        (cyclic ketalization by, of tribromoestrone)
    79258-15-4
IT
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (cyclic ketalization of, with ethylene glycol)
TT
    119830-38-5P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and addition reaction of, with mercaptopropionic acid)
IT
    119830-41-0P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation and binding of, with bovine serum albumin)
    119830-39-6P
TΨ
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and debromination of)
IT
    119830-33-0P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and dehydrobromination of)
    119830-34-1P
ΤT
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and deketalization of)
    119830-37-4P
IT
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and oxidation of)
    119830-35-2P
IT
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reaction of, with sodium nitrite)
IT
    119830-36-3P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and reduction of)
IT
    119830-40-9P
                    119830-42-1P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
    55349-22-9
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (cross-reactivity of, with anti-hydroxyestrone antiserum)
RN
    55349-22-9 HCAPLUS
    \beta-D-Glucopyranosiduronic acid, (16\alpha, 17\beta)-3,16,17-
    trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)
```



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L31
    ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
ΑN
     1988:529502 HCAPLUS
DN
     109:129502
ED
     Entered STN: 14 Oct 1988
ΤI
     Studies on steroids. CCXXXVI. New synthesis of 2-hydroxyestrogen
     2-monoglucuronides
ΑU
     Okubo, Tadashi; Tsuchiko, Fumiko; Nambara, Toshio
CS
     Pharm. Inst., Tohoku Univ., Sendai, 980, Japan
SO
     Chemical & Pharmaceutical Bulletin (1988), 36(1), 419-23
     CODEN: CPBTAL; ISSN: 0009-2363
DT
     Journal
LΑ
     English
CC
     33-3 (Carbohydrates)
     Section cross-reference(s): 32
OS
     CASREACT 109:129502
AΒ
     New synthetic routes leading to catechol estrogen 2-monoglucuronides are
     described. Thus, 4-bromo-2-hydroxyestriol 16,17-diacetate via
     Koenigs-Knorr reaction with Me \alpha\text{-acetobromoglucuronate} in the
     presence of CdCO3 proceeded preferentially toward the C-2 hydroxyl group.
     Subsequent reductive dehalogenation followed by alkaline hydrolysis gave the
     desired 2-hydroxyestriol 2-glucuronide. Similarly, 2-hydroxyestradiol and
     2-hydroxyestrone 2-glucuronides were prepared
ST
     estratriene glucuronide
IT
     805-26-5
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (bromination of)
     88623-44-3
IT
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (periodate oxidation of)
IT
                    116382-71-9P
     116382-70-8P
                                    116436-60-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and enzymic hydrolysis of)
ΙT
     116382-64-0P
                    116382-67-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and hydrogenolysis of)
ΙT
     27736-76-1P
                   53048-13-8P 116408-03-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and methylation of)
TT
     116382-62-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation and periodate oxidation of)
IT
     116382-63-9P
                    116382-66-2P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
```

(preparation and reaction with glucuronate derivative) IT 116382-60-6P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction with sodium nitrite) 53048-12-7P ΙT RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reactions of) IT 116382-61-7P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reduction of) TΤ 116382-68-4P 116382-65-1P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and saponification of) 5976-65-8P 28818-82-8P 116382-69-5P IT 5976-63**-**6P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) IT 21085-72-3 RL: RCT (Reactant); RACT (Reactant or reagent) (reaction of, with steroids)

IT 116408-03-8P

LA

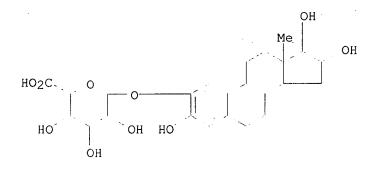
English

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and methylation of)

RN 116408-03-8 HCAPLUS

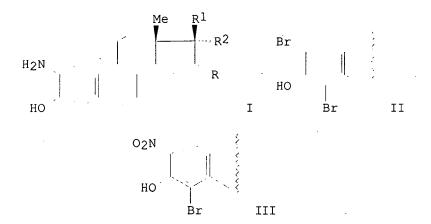
CN  $\beta$ -D-Glucopyranosiduronic acid,  $(16\alpha,17\beta)$ -3,16,17-trihydroxyestra-1,3,5(10)-trien-2-yl, monosodium salt (9CI) (CA INDEX NAME)



Na

ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN 1984:68583 HCAPLUS ΑN DN 100:68583 ED Entered STN: 12 May 1984 ΤI Novel and regiospecific synthesis of 2-amino estrogens via Zincke nitration Numazawa, Mitsuteru; Kimura, Katsuhiko ΑU Tohoku Coll. Pharm., Sendai, 983, Japan CS SO Steroids (1983), 41(5), 675-82 CODEN: STEDAM; ISSN: 0039-128X DT Journal

CC 32-3 (Steroids) GI



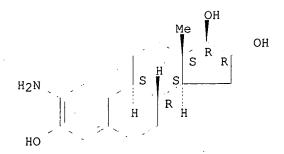
AΒ Aminoestrogens I (R = H, HO; R1 = HO, R2 = H; R1R2 = O) were prepared Dibromoestrogens II were regiospecifically converted to the 2-nitro-4-bromo derivative III in quant. yields with Zincke nitration using sodium nitrite. Catalytic hydrogenation of III over Pd/C gave directly the desired 2-amino estrogens in high yields. I (R = H, HO; R1 = HO, R2 =H) were also obtained by reduction of the corresponding 2-nitro-4-bromides with NaBH4 in the presence of PdCl2. STamino estrogen; Zincke nitration regiochem bromoestrogen ΙT Regiochemistry (of Zincke nitration, of dibromo estrogens) IT 19-Norsteroids RL: RCT (Reactant); RACT (Reactant or reagent) (regioselective Zincke nitration of dibromo estrogens) IT Nitration (Zincke, regioselective, of dibromo estrogens) 25975-57-9P 88623-42-1P IT 88623-41-0P 88623-43-2P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reduction of) TT 6301-87-7P 14984-43-1P 88599-95-5P 88599-96-6P 88623-44-3P 88623-46-5P 88623-47-6P 88623-45-4P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) IT 19590-54-6 19590-55-7 60788-62-7 79258-14-3 RL: RCT (Reactant); RACT (Reactant or reagent) (regioselective Zincke nitration of) ΙT 88599-96-6P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) RN 88599-96-6 HCAPLUS

Estra-1, 3, 5(10) -triene-3, 16, 17-triol, 2-amino-,  $(16\alpha, 17\beta)$  -

Absolute stereochemistry.

(9CI) (CA INDEX NAME)

CN



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ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
L31
ΑN
     1977:463000 HCAPLUS
```

87:63000 DN

ED Entered STN: 12 May 1984

TI Studies on steroids. Part CXX. Biliary conjugated metabolites of estriol in the rat

ΑU Nambara, Toshio; Kawarada, Yoshihiko

Pharm. Inst., Tohoku Univ., Sendai, Japan CS

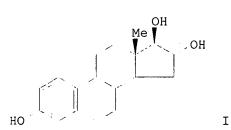
Chemical & Pharmaceutical Bulletin (1977), 25(5), 942-8 SO CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

2-2 (Hormone Pharmacology) CC Section cross-reference(s): 13

GΙ



The conjugated metabolites excreted in rat bile following the oral AΒ administration of a large dose of estriol (I) [50-27-1] were isolated and characterized. Eleven principal conjugates were separated by chromatog. on Amberlite XAD-2 resin, followed by gel filtration on Sephadex LH-20 and partition chromatog. on silica gel. The structures of these metabolites were deduced from the physico-chemical data and definitely characterized by preparing their derivs. and comparing them with synthetic specimens. The physiol. significance of biotransformation is discussed.

estriol bile conjugate metabolite

IT Bile

(estriol conjugated metabolites of)

IT 1852-50-2 2479-91-6 7219-89-8 17120-96-6 55349-17-2 55349-18-3 55349-20-7 55349-21-8 55349-22-9 55349-23-0 55349-19-4

RL: FORM (Formation, nonpreparative)

(formation of, from estriol)

IT 50-27-1

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of)

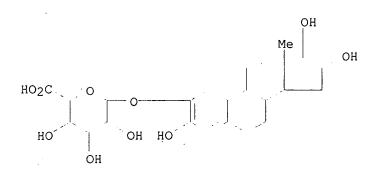
IT 55349-22-9

RL: FORM (Formation, nonpreparative)

```
(formation of, from estriol)
```

RN 55349-22-9 HCAPLUS

CN  $\beta$ -D-Glucopyranosiduronic acid,  $(16\alpha, 17\beta)$ -3,16,17-trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)



```
L31
    ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2003 ACS on STN
     1975:453697 HCAPLUS
ΑN
DN
     83:53697
ED
    Entered STN: 12 May 1984
    Conjugated metabolites of estriol in rat bile
TΙ
ΑU
    Nambara, Toshio; Kawarada, Yoshihiko
CS
     Pharm. Inst., Tohoku Univ., Sendai, Japan
     Chemical & Pharmaceutical Bulletin (1975), 23(3), 698-700
SO
     CODEN: CPBTAL; ISSN: 0009-2363
DT
     Journal
LA
    English
CC
     2-2 (Hormone Pharmacology)
     Section cross-reference(s): 13
     For diagram(s), see printed CA Issue.
GI
    After oral administration of 50 mg of estriol (I) [50-27-1] to the rat, 11
AΒ
     principal conjugates were separated from the bile. The structures of these
    metabolites were deduced from the physicochem. data and definitely
     characterized by direct comparison with the synthetic specimens. The
     significance of the biotransformations observed is discussed.
     estriol metabolite bile
ST
IT
    Bile
        (estriol metabolites of)
                                         17120-96-6
                                                      55349-17-2
                                                                    55349-18-3
IT
     1852-50-2
                 2479-91-6 7219-89-8
                               55349-21-8 55349-22-9
                                                       55349-23-0
                 55349-20-7
     55349-19-4
    RL: FORM (Formation, nonpreparative)
        (formation of, from estriol)
IT
     50-27-1
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (metabolism of)
     55349-22-9
IΤ
     RL: FORM (Formation, nonpreparative)
        (formation of, from estriol)
RN
     55349-22-9 HCAPLUS
```

 $\beta$ -D-Glucopyranosiduronic acid,  $(16\alpha, 17\beta)$ -3,16,17-

trihydroxyestra-1,3,5(10)-trien-2-yl (9CI) (CA INDEX NAME)

CN

Welcome to STN International! Enter x:x

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LOGINID:ssspta1202sxq
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2
           * * * *
                     Welcome to STN International
NEWS
                 Web Page URLs for STN Seminar Schedule - N. America
                  "Ask CAS" for self-help around the clock
NEWS
                 New e-mail delivery for search results now available
NEWS
      3 Jun 03
NEWS
      4 Aug 08
                 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5
         Aug 19
                 Aquatic Toxicity Information Retrieval (AQUIRE)
                 now available on STN
NEWS
         Aug 26
                 Sequence searching in REGISTRY enhanced
NEWS .7
         Sep 03
                 JAPIO has been reloaded and enhanced
NEWS
         Sep 16
                 Experimental properties added to the REGISTRY file
                 CA Section Thesaurus available in CAPLUS and CA
NEWS
      9
         Sep 16
NEWS 10 Oct 01
                 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11 Oct 24
                 BEILSTEIN adds new search fields
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT
NEWS 14 Nov 25 More calculated properties added to REGISTRY
NEWS 15 Dec 04 CSA files on STN
NEWS 16 Dec 17
                 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17 Dec 17
                 TOXCENTER enhanced with additional content
NEWS 18 Dec 17
                 Adis Clinical Trials Insight now available on STN
NEWS 19 Jan 29
                 Simultaneous left and right truncation added to COMPENDEX,
                 ENERGY, INSPEC
NEWS 20 Feb 13
                 CANCERLIT is no longer being updated
NEWS 21 Feb 24 METADEX enhancements
NEWS 22 Feb 24 PCTGEN now available on STN
NEWS 23 Feb 24 TEMA now available on STN
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 25 Feb 26 PCTFULL now contains images
NEWS 26 Mar 04
                 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27
         Mar 20
                 EVENTLINE will be removed from STN
NEWS 28 Mar 24
                 PATDPAFULL now available on STN
NEWS 29
         Mar 24
                 Additional information for trade-named substances without
                 structures available in REGISTRY
NEWS 30 Apr 11
                Display formats in DGENE enhanced
NEWS 31 Apr 14
                 MEDLINE Reload
NEWS 32 Apr 17
                 Polymer searching in REGISTRY enhanced
NEWS 33
                 Indexing from 1947 to 1956 added to records in CA/CAPLUS
         Jun 13
NEWS 34
         Apr 21
                 New current-awareness alert (SDI) frequency in
                 WPIDS/WPINDEX/WPIX
NEWS 35
         Apr 28
                 RDISCLOSURE now available on STN
NEWS 36
                 Pharmacokinetic information and systematic chemical names
         May 05
                 added to PHAR
NEWS 37
         May 15
                 MEDLINE file segment of TOXCENTER reloaded
NEWS 38
         May 15
                 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39 May 16 CHEMREACT will be removed from STN
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ОН
                                  Me
                                          OH
HO<sub>2</sub>C
        0
  HO
              ОН
                  НО
        ОН
=> d his
     (FILE 'HOME' ENTERED AT 11:00:14 ON 21 DEC 2003)
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L1
                 STR
L2
             42 S L1 CSS SAM
L3
            949 S L1 CSS FUL
                 SAV L3 QAZI779/A
L4
                 STR L1
L5
            448 S L4 CSS FUL SUB=L3
                 SAV L5 QAZI779A/A
L6
            501 S L3 NOT L5
L7
                 STR L1
             25 S L7 CSS FUL SUB=L6
L8
                 SAV L8 QAZI779B/A
L9
            476 S L6 NOT L8
L10
                 STR L7
              0 S L10 CSS SAM SUB=L9
L11
              0 S L10 SAM SUB=L9
L12
L13
              5 S L10 FUL SUB=L9
                 SAV L13 QAZI779C/A
L14
                 STR L10
L15
              0 S L14 SAM SUB=L9
L16
              3 S L14 FUL SUB=L9
                SAV L16 QAZI779D/A
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L17
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     FILE 'HCAPLUS' ENTERED AT 11:19:12 ON 21 DEC 2003
L18
              3 S L16
     FILE 'USPATFULL, USPAT2' ENTERED AT 11:19:24 ON 21 DEC 2003
L19
              1 S L16
     FILE 'HCAPLUS' ENTERED AT 11:19:36 ON 21 DEC 2003
L20
           5842 S L6
L21
           5811 S L9
             16 S L20, L21 AND (AGOSTON ? OR PRIBLUDA ? OR TRESTON ? OR GREEN ?)
L22
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FILE 'REGISTRY' ENTERED AT 11:21:45 ON 21 DEC 2003 23 S E1-E23

2 S L20, L21 AND ENTREMED?/PA, CS

16 S L22, L23 SEL HIT RN

L23 L24

L25

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FILE 'HCAOLD' ENTERED AT 11:26:04 ON 21 DEC 2003 L28 0 S L13

FILE 'USPATFULL, USPAT2' ENTERED AT 11:26:14 ON 21 DEC 2003 L29 O S L13

FILE 'HCAPLUS' ENTERED AT 11:26:18 ON 21 DEC 2003

L30 8 S L13 L31 11 S L30, L18

FILE 'USPATFULL, USPAT2' ENTERED AT 11:26:30 ON 21 DEC 2003

FILE 'HCAPLUS' ENTERED AT 11:26:39 ON 21 DEC 2003

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3/8 - (C) FILE HCAPLUS
 STN CA Caesar accession number : 1600
                                              XP-002186128
     - 1990:152537 HCAPLUS /
     - 112:152537
 DM
     - Kits for RIA of catechol estrogens for breast cancer diagnosis
 TI
     - Kubodera, Akiko
 IM
     - Research Development Corp. of Japan, Japan
      - Jpn. Kokai Tokkyo Koho, 7 pp.
                                                                 RECEIVED
 SO
        CODEN: JKXXAF
 DT
      - Patent
                                                                   MAY 2 8 2002
      - Japanese
 LA
 FAN.CNT 1
                                                               TECH CENTER 1600/2900
        PATENT NO.
                                    APPLICATION NO.
                                                      DATE
                     KIND DATE
     - JP63090763
                        A 19880421 JP 1986-235647
                                                      19861003
        JP2517561B
                        В
                           19960724
 OS
     - MARPAT 112:152537
     - A kit for immunoassay of catechol estrogens consists of antibodies
        to I (A = :NO, O2C; n = 1-4; R = protein residue; R1, R2 = H, OH)
        and labeled catechol estrogens. 2,3-Dihydroxyestra-1,3,5(10)-trien-
        17-one was treated with carboxymethylhydroxylamine-HCl to give
        2-hydroxyestrone-17-(o-carboxymethyl)oxium, which was bound to
       bovine serum albumin for use in antibody (antiserum) prodn. A kit
        for 2-hydroxyestrone detn. consisted of this antibody and
        2-hydroxyestrone-3H.
 GI
[--00000018]
IT
    ***120858-24-4***
    RL: BIOL (Biological study)
        (RIA kit contg., for catechol estrogen detn.)
     120858-24-4 HCAPLUS
RN
\mathbb{Z}N
    Estra-1,3,5(10)-triene-2,3,4-triol, labeled with tritium (9CI)
     INDEX NAME)
Absolute stereochemistry.
[==00000019]
    ***120858-21-1*** , Estra-1,3,5(10)-triene-2,3,4-triol
IT
    RL: ANT (Analyte); ANST (Analytical study)
        (detn. of, RIA kit for)
3N
    120858-21-1 HCAPLUS
\mathbb{Z}N
    Estra-1,3,5(10)-triene-2,3,4-triol (9CI) (CA INDEX NAME)
Absolute stereochemistry.
[__00000020]
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4/5/1 DIALOG(R) File 399:CA SEARCH(R) (c) 1998 American Chemical Society. All rts. reserv. CA: 109(13)110741u PATENT 109110741 11.beta.-(4-Isopropenylphenyl)estra-4,9-dienes, procedure for their preparation, pharmaceutical preparations containing them, and their use as antiqestagens INVENTOR (AUTHOR): Ottow, Eckhard; Wiechert, Rudolf; Neef, Guenter; Beier, Sybille; Elger, Walter; Henderson, David LOCATION: Fed. Rep. Ger. ASSIGNEE: Schering A.-G. PATENT: Germany Offen. ; DE 3625315 Al DATE: 880128 APPLICATION: DE 3625315 (860725) PAGES: 5 pp. CODEN: GWXXBX LANGUAGE: German CLASS: C07J-001/00A; C07C-041/00B; A61K-031/565B; A61K-031/57B; A61K-031/575B SECTION: CA232003 Steroids CA202XXX Mammalian Hormones IDENTIFIERS: progesterone antagonist estradiene prepn, antigestagen estradiene prepn DESCRIPTORS: Progestogens... inhibitors, estradiene derivs. Steroids, preparation... prepn. of estradienes as antigestagens CAS REGISTRY NUMBERS: 57-83-0 biological studies, antagonists to, estradiene derivs. as 93697-60-0 Grignard reaction of, with bromoisopropenylbenzene 6888-79-5 Grignard reaction of, with epoxyestrenol deriv. 116196-34-0P 116229-17-5P prepn. and reaction of, in synthesis of antigestagenic estradiene deriv.

116196-26-0P 116196-27-1P 116196-28-2P 116196-29-3P

116196-32-8P prepn. of, as antigestagen

116196-21-5P 116196-22-6P

116196-23-7P 116196-24-8P 116196-25-9P

8/5/7 DIALOG(R) File 399:CA SEARCH(R) (c) 1998 American Chemical Society. All rts. reserv. JOURNAL 74010081 CA: 74(3)10081u Orally active long-acting estrogen (AY-20,121) (3-(2-propynyloxy)-estra-1,3,5(10)-trien-17.beta.-ol trimethylacetate) AUTHOR(S): Banik, Upendra K.; Revesz, Clara; Herr, Ferenc LOCATION: Ayerst Res. Lab., Montreal, Que. JOURNAL: Steroids DATE: 1970 VOLUME: 16 NUMBER: 3 PAGES: 289-96 CODEN: STEDAM LANGUAGE: English SECTION: CA804000 Hormones and Related Substances IDENTIFIERS: estrogens synthetic, contraceptives steroids DESCRIPTORS: Estrogenic hormones... (propynyloxy) estratrienol trimethylacetate Vagina... (propynyloxy) estratrienol trimethylacetate effect on epithelium of CAS REGISTRY NUMBERS: 57-63-6 152-43-2 biol. activity of, (propynyloxy)estratrienol

trimethylacetate in relation to

28002-65-5 estrogenic hormone

8/5/8

DIALOG(R) File 399:CA SEARCH(R)

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CA: 73(11)56310a PATENT 73056310

Rodenticidal 3-(2-propynyloxy)-estra-1,3,5(10)-trien-17.beta.-ol pivalate

INVENTOR (AUTHOR): Kruger/ Gunther

ASSIGNEE: American Home Products Corp.

PATENT: United States US 3496272 DATE: 700217

APPLICATION: United States DATE: 680123

PAGES: 3 pp. CODEN: USXXAM CLASS: 424-238; A 01n

SECTION:

CA832000 Steroids

IDENTIFIERS: rodenticidal propynyloxy estratrienols

DESCRIPTORS:

19-Norsteroids...

17-hydroxy-3-(2-propynyloxy) pivalate

CAS REGISTRY NUMBERS:

24099-40-9P 24894-50-6P 28002-65-5P 28151-61-3P 28275-48-1P 28275-49-2P 28275-50-5P 28425-85-6P prepn. of

8/5/9

DIALOG(R) File 399:CA SEARCH(R)

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72032135

CA: 72(7)32135a

PATENT

3-Alkoxy-17.alpha.-propynylestra-1,3,5(10)-trien-17.beta.-ols

INVENTOR (AUTHOR): Galantay, Eugene E.

ASSIGNEE: Sandoz Ltd.

PATENT: Germany Offen. DE 1907330 DATE: 691023

APPLICATION: United States DATE: 680219

PAGES: 20 pp. CODEN: GWXXBX CLASS: C 07c; A 61k

SECTION:

CA832000 Steroids

IDENTIFIERS: estratrienols propynyl

DESCRIPTORS:

19-Norsteroids...

3-alkoxy

CAS REGISTRY NUMBERS:

24640-01-5P 24640-02-6P 24640-03-7P 24640-04-8P prepn. of